## INTERNATIONAL SEARCH REPORT

International application No.

		PCT	T/JP2004/013840
	ATION OF SUBJECT MATTER G01B21/22, G01D5/245, G01S7/4	8, G02B26/10	
According to Inte	rnational Patent Classification (IPC) or to both national	l classification and IPC	
B. FIELDS SEA			
Minimum docum Int.Cl <sup>7</sup>	entation searched (classification system followed by classification system	1/00-21/32; G01C3/	
Jitsuyo Kokai Ji		tsuyo Shinan Toroku Ko roku Jitsuyo Shinan Ko	oho 1996–2004 oho 1994–2004
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C. DOCUMEN	TS CONSIDERED TO BE RELEVANT	······································	
Category*	Citation of document, with indication, where ap	propriate, of the relevant passage	s Relevant to claim No.
А (①	JP 2002-174794 A (Denso Corp 21 June, 2002 (21.06.02), Full text; all drawings & US 2001/0036000 A1	.),	1-24
A (2)	WO 02/08818 A1 (NHK Spring Co 31 January, 2002 (31.01.02), Full text; all drawings & US 2003/0035188 A1 & EP		1-24
а (3)	JP 8-51522 A (Matsushita Elector, Ltd.), 20 February, 1996 (20.02.96), Full text; all drawings (Family: none)	ctric Industrial	1-24
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× Further doc	numents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
priority date		"&" document member of the sam  Date of mailing of the internation	
21 Dece	mber, 2004 (21.12.04)	18 January, 20	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
A (4)	JP 7-280526 A (Nippon Steel Corp.), 27 October, 1995 (27.10.95), Full text; all drawings (Family: none)	1-24
A (5)	JP 61-122510 A (Omron Tateisi Electronics Co.), 10 June, 1986 (10.06.86), Full text; all drawings (Family: none)	1-24
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